

Db 943 LDEFPVAVSMV-----ALMRIFRQSLSHHHTVWVQAITFIKSLGLKCVQLPQVM-- 994  
Qy 1109 SAWEMLLIANTHADIVMLTDSVVRQLPLDV-----LDCTKALLVPASV 1154  
Db 995 -----PTFLNVRVCDGAIREFLPQOQMLUVSVKSHIRPYWDEIVTLRSPWVM 1044  
Qy 1155 NCLRLGSMKCTLLILLRQWRELGSVDEILGFLTEILEGLVQADQQLMKTKAKVPSAP 1214  
Db 1045 NT-----SIQSTIIL-LBQIVVALGGEFKLY--LPQLIPHLRV--FMDNSQGRIVS-- 1093  
Qy 1315 ITVLQKMKVSDIPOYSQVLNVVCTELQBEVIALPDQTRHSL-----ALGSATEDKDSM 1269  
Db 1094 IKLAAIOLPGANLDYLLHLL-----PPIVKLFDAPEVLPSPKAALETVDRLTESL 1146  
Qy 1270 E-TDSCSRSHRDQGVCLGLHLAKELCEVDEODSWL---QVTRRLPILPILLTTLV 1326  
Db 1147 DFTDYARIIH-----PIVRTDQSPELRSTAMDTLSLVFQIGKYQIPIPMWKNVJV 1200  
Qy 1327 SLRKNQNLH-----FT-----EATLHLLLTARTQOQATAVAGAGITQSICLPL 1371  
Db 1201 RHRINHQRVDVLCRIVKGYTLADEEDPLIYQHRMLASSQCDALASGPVETG----PMK 1256  
Qy 1372 SVYQLSTNGTAQTPSASRKSLDAPSW--PGVYRLGSLM--EQLLKTLLR-----YNELP 1421  
Db 1257 KLVSTINLQKAWGAARRVSKD--DWLEKRLRLSLLEKDSSESLASSCWALAAQAYV--P 1312  
Qy 1422 EALD-----PVGU-----HQERTLOCLNVRVTVOSLACLEADHTVGVFIQLSNMKE 1469  
Db 1313 MARDLFAAFVSCWSELNEDQDELIRSIELALSODIA---EVTOT---LNLAEFPM--E 1365  
Qy 1470 WHFHLPOLARDIQ--VNIG---YLCOACTSLHRSRKLQHYLQKNGDGLPSAVA--QRV 1522  
Db 1366 HSDKGPLRLDDNGIIVLLGERAAKCRAYAKALHYKEL--EFQKGTFAILESLSINNK 1423  
Qy 1523 QRPPSAAASAPSSSKQ--PAADTEASEQQALH 1552  
Db 1424 QQPEASGVLYAMKHGFELEIQTATWYKELH 1454

## RESULT 5

US-08-471-112A-3  
; Sequence 3, Application US/08471112A  
; Patent No. 6313264  
; GENERAL INFORMATION:  
; APPLICANT: Molnar-Kimber, Katherine L.  
; APPLICANT: Pailli, Amedeo P.  
; APPLICANT: Caggiano, Thomas J.  
; APPLICANT: Nakanishi, Koji  
; APPLICANT: Chen, Yanqiu  
; TITLE OF INVENTION, SPECTATOR PROTEINS OF RAPAMYCIN  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Finnegan, Henderson, Parabow, Garrett &  
; ADDRESS: 1300 I Street, N.W.  
; CITY: Washington  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20005-3315  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/471,112A  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/384,524  
; FILING DATE: 13-FEB-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/312,023

; FILING DATE: 26-SEP-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/207,975  
; FILING DATE: 08-MAR-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Siekman, Michael T.  
; REGISTRATION NUMBER: 36,276  
; REFERENCE/DOCKET NUMBER: 01142.0058-00000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-408-4000  
; TELEFAX: 202-408-4400  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2549 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; US-08-471-112A-3

Query Match 1.6%, Score 144.5, DB 3, Length 2549;  
Best Local Similarity 18.6%, Pred. No. 0.0017,  
Matches 336; Conservative 238; Mismatches 628; Indels 605; Gaps 87;

Qy 237 LVLTPMFKQGGFSGRTVRLHVDTPMPP-----VDRIGYFSAIILVEGMOIS 284  
Db 217 LILATTOREPKMKPKPWYRHTFEBAERGFDTLAKKGMRRDDRI-HGALLILNELVRIS 275  
Qy 285 SLHKCALDDRRRLHQPADGLI-----QQDMDCALMTFGDIPHPAPVLLAWALLRHTLNP 340  
Db 276 SMEGERL--REMEBITQQQLVHDKYCKD--LMGFTKPRHTTPTSP---QAVQPQ 325  
Qy 341 ETSSVVRKIG-----CTA----- 353  
Db 326 QSNALVGLLGYSSHQGLMGFTSPSPAKSTLVRSRCDRLBEKPOQVQWVKRNSEN 385  
Qy 354 --IQNLVPOYLTRL-----LQSLASGNDCTTS-----TACMCVYGLLSPVLT 394  
Db 386 SLIQMTILNLLPRLAARPSAFTDTQLODTMHALSCVKKCKERTAAFOALGLLSVAVR 445  
Qy 395 SLELTLNQDDIIDTAC-----EVLADPSLPFLFMGTPTSGIILD----- 438  
Db 446 SBFKVLPRVLDIIRAAAPPKQKAWQVDTAFTVCISMLABAMGPGIQQIKELL 505  
Qy 439 ---SVCGMPHLLPQLQLLALVSGHSTAKVYSLDDKMSFYNELYKHKPHDVISHEDG 495  
Db 506 EPMKLVGLSPALTAVLDLSHQIPQLK---KDIQDGLLKH--LSLVLMKKP----- 551  
Qy 496 TLWRRTQPK-LIYPLGGQTNLRIPQGT-VQGVMLDDRAVLVRWEYSYSMTLP----- 546  
Db 552 -LRHFGNPKGLAHQASPLTLTLEASDVGSITLALRT-LGSPFEGHSLTQVVRHCADH 609  
Qy 547 -----TCB---IEMLLHVSTADVIQHQVVKPTIDLVHKVI-----STD 584  
Db 610 PLNSEHKSIRMAARTCSRLITPSIHLISGHAVHVSQTAVQVADVLSKLAVGIGTDP 669  
Qy 585 STADCLLPITSRYML-----LORLTTVISPPDVIVASCNCLTV--LAARNA----- 531  
Db 670 DIRYCVLASDERFDAHLAQENLQALFVALNDQVFEIRELAIC-TVGLRSMNPAFVMP 728  
Qy 632 -----KVWTDLRHTGF-----LPFAHPVSSLSMISABGMNAGYGN-----L 670  
Db 729 FLIRKQLIQLITELHSGIGRIKQSAAMLGHVSNAPRLIRP-----YMEPIKALIL 781  
Qy 671 LMNSEQPGQEGVTIAPLRILITLVKQLGSTQSGLVFCVMPVKELMPLSVHKRYNSH 730  
Db 782 KLDKDPDPNPGVINNVLATI-----GEL---AQVSGE-----EM-----RKU 816  
Qy 731 GVRQIGCLILLELHAILNLCHETDLHSSHTPELQPL--CICSLAY----- 774  
Db 817 -----VDELFIIMDLQDSSLLAKRQVALMTLGLQVASTGVVYPRKPTLIEV 867  
Qy 775 -----TEAGQ-----TVINING-----IGVDTIDKVMNAAPRSDGAEQCGCQL 813



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OM protein - protein search, using aw model

Run on: December 30, 2004, 15:14:08 ; Search time 215.263 Seconds  
(without alignments)

2329.449 Million cell updates/sec

Title: US-10-719-385-2

Perfect score: 9007

Sequence: 1 MIRKSKITSVLSPCRSSREL.....PESQEPILQVQAFVRHMQR 1753

Scoring table: BLOSUM62

Gapop 10.0 ; Gapext 0.5

Searched: 1599051 seqs, 359727711 residues

Total number of hits satisfying chosen parameters: 1599051

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Databases :

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- 10: /cgn2\_6/prodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
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- 20: /cgn2\_6/prodata/1/pubpaa/US10I\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	9007	100.0	1753	17	US-10-719-385-2
2	9005	100.0	1753	17	US-10-719-385-4
3	9005	100.0	1753	17	US-10-719-385-8
4	9004	100.0	1753	17	US-10-719-385-3
5	9004	100.0	1753	17	US-10-719-385-11
6	9004	100.0	1753	17	US-10-719-385-13
7	9004	100.0	1753	17	US-10-719-385-14
8	9003	100.0	1753	17	US-10-719-385-15
9	9002	99.9	1753	17	US-10-719-385-6
10	9002	99.9	1753	17	US-10-719-385-10
11	9001	99.9	1753	17	US-10-719-385-16
12	8999	99.9	1753	17	US-10-719-385-7
13	8999	99.9	1753	17	US-10-719-385-12

14	8998	99.9	1753	17	US-10-719-385-18	Sequence 18, Appli
15	8997	99.9	1753	17	US-10-719-385-9	Sequence 9, Appli
16	8993	99.8	1753	17	US-10-719-385-17	Sequence 17, Appli
17	8991	99.8	1753	17	US-10-719-385-19	Sequence 19, Appli
18	8985.5	99.8	1752	17	US-10-719-385-5	Sequence 5, Appli
19	8939	99.2	1745	17	US-10-719-385-21	Sequence 21, Appli
20	8939	99.2	1745	17	US-10-719-385-22	Sequence 22, Appli
21	8927	99.1	1745	17	US-10-719-385-23	Sequence 23, Appli
22	5270	58.5	1111	17	US-10-719-385-24	Sequence 24, Appli
23	4093	45.4	853	17	US-10-719-385-25	Sequence 25, Appli
24	2420	26.9	526	17	US-10-719-385-26	Sequence 26, Appli
25	369.5	4.1	2026	16	US-10-437-963-135530	Sequence 135530, Ap
26	305	3.4	63	14	US-10-106-698-5917	Sequence 5917, Ap
27	245	2.7	1745	16	US-10-437-963-173637	Sequence 173637, Ap
28	176.5	2.0	2505	16	US-10-437-963-154118	Sequence 154118, Ap
29	175.5	1.9	1676	14	US-10-128-714-8246	Sequence 8246, Ap
30	169.5	1.9	2621	16	US-10-437-963-122168	Sequence 122168, Ap
31	166	1.8	2122	16	US-10-437-963-189782	Sequence 189782, Ap
32	165	1.8	1545	14	US-10-128-714-3246	Sequence 3246, Ap
33	160.5	1.8	2462	16	US-10-437-963-114113	Sequence 114113, Ap
34	157	1.7	3859	16	US-10-408-765A-354	Sequence 354, Ap
35	156	1.7	2827	15	US-10-424-599-256710	Sequence 256710, Ap
36	155	1.7	1357	14	US-10-369-493-2224	Sequence 2224, Ap
37	153	1.7	2834	15	US-10-424-599-256711	Sequence 256711, Ap
38	153	1.7	3830	17	US-10-723-860-2568	Sequence 2568, Ap
39	152.5	1.7	2159	16	US-10-437-963-108860	Sequence 108860, Ap
40	152.5	1.7	2412	16	US-10-408-765A-214	Sequence 214, Ap
41	151	1.7	3225	16	US-10-408-765A-254	Sequence 254, Ap
42	148.5	1.6	2811	14	US-10-369-493-5019	Sequence 5019, Ap
43	148	1.6	2593	16	US-10-810-352-39	Sequence 39, Appli
44	148	1.6	2593	16	US-10-437-963-114115	Sequence 114115, Ap
45	147.5	1.6	2209	9	US-09-903-941-1903	Sequence 1903, Ap
46	147.5	1.6	2209	9	US-09-848-646-1903	Sequence 1903, Ap
47	147.5	1.6	2209	14	US-10-017-754-1903	Sequence 1903, Ap
48	147.5	1.6	2209	14	US-10-113-872-1903	Sequence 1903, Ap
49	147.5	1.6	2209	14	US-10-283-017-1903	Sequence 1903, Ap
50	147.5	1.6	2209	16	US-10-408-765A-863	Sequence 863, App
51	147.5	1.6	2209	17	US-10-723-860-1675	Sequence 1675, Ap
52	147.5	1.6	2859	13	US-10-087-192-249	Sequence 249, App
53	147	1.6	3907	14	US-10-171-311-2	Sequence 2, Appli
54	147	1.6	3925	14	US-10-171-311-6	Sequence 6, Appli
55	145.5	1.6	2848	14	US-10-369-493-6048	Sequence 6048, Ap
56	145	1.6	2211	17	US-10-729-320-10332	Sequence 10332, A
57	144.5	1.6	2549	10	US-09-950-634-3	Sequence 3, Appli
58	144.5	1.6	2549	16	US-10-688-016-3	Sequence 3, Appli
59	144	1.6	2405	16	US-10-437-963-106815	Sequence 106815, Ap
60	143.5	1.6	876	9	US-09-738-626-4789	Sequence 4789, Ap
61	143	1.6	1783	15	US-10-188-832-86	Sequence 86, Appli
62	143	1.6	2549	14	US-10-701-490-2	Sequence 2, Appli
63	143	1.6	3899	14	US-10-171-311-4	Sequence 4, Appli
64	143	1.6	3917	14	US-10-171-311-8	Sequence 8, Appli
65	142.5	1.6	973	16	US-10-437-963-178286	Sequence 178286, Ap
66	142.5	1.6	2545	15	US-10-092-300A-76	Sequence 76, Appli
67	142	1.6	2846	16	US-10-437-963-189923	Sequence 189923, Ap
68	140.5	1.6	1821	16	US-10-437-963-203003	Sequence 203003, Ap
69	140.5	1.6	2852	17	US-10-491-471-14	Sequence 14, Appli
70	140	1.6	1867	16	US-10-437-963-137806	Sequence 137806, Ap
71	140	1.6	3878	14	US-10-080-608A-11	Sequence 11, Appli
72	140	1.6	3911	14	US-10-370-685-100	Sequence 100, App
73	140	1.6	3911	16	US-10-408-765A-1839	Sequence 1839, Ap
74	139.5	1.5	4096	17	US-10-473-127-571	Sequence 571, App
75	139.5	1.5	4097	15	US-10-363-616-415	Sequence 415, App
76	139.5	1.5	4097	16	US-10-408-765A-1598	Sequence 1598, Ap
77	139.5	1.5	4097	17	US-10-473-127-569	Sequence 569, App
78	139.5	1.5	4128	15	US-10-363-616-416	Sequence 416, App
79	139.5	1.5	4128	17	US-10-473-127-574	Sequence 574, App
80	138.5	1.5	1651	17	US-10-128-558-215	Sequence 215, App
81	138.5	1.5	2132	15	US-10-424-599-161362	Sequence 161362, Ap
82	138.5	1.5	2835	9	US-09-885-535-4	Sequence 4, Appli
83	138.5	1.5	4095	17	US-10-473-127-572	Sequence 572, App
84	138	1.5	1479	16	US-10-437-963-106122	Sequence 106122, Ap
85	136.5	1.5	4128	17	US-10-473-127-568	Sequence 568, App
86	136.5	1.5	4128	17	US-10-473-127-573	Sequence 573, App